

Propellant-free spray composition, e.g. for pump spray deodorant comprises an aqueous alcohol, a cosmetic/dermatological active ingredient, a polymeric thickener and optional additives

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Patent Family							
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#### Abstract:

EP 1210932 A2

NOVELTY Propellant-free spray composition for topical application to the human body from a spray dispenser comprises:

- (1) a vehicle comprising water and 2-4C alcohol in a weight ratio of 1:0.5-2;
- (2) at least one cosmetic or dermatological active ingredient;
- (3) a polymeric thickener dissolved in the vehicle (0.01-1 wt%); and
- (4) additives (0-10 wt%).

USE The composition is especially useful as a pump spray deodorant.

ADVANTAGE Controlling the rheology of the composition with the thickener allows the spray pattern and its deposition on the skin to be improved.

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#### Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Preferred Thickener: The thickener preferred is an acrylamide (co)polymer, especially a copolymer with water-soluble 2-acrylamido-2-methylpropanesulfonate salt, or a combination of an acrylamide (co)polymer and a crosslinked acrylic acid (co)polymer.

ORGANIC CHEMISTRY - Preferred Composition: The active ingredient is preferably a deodorant system comprising:

- (i) an enzyme-inhibiting ester of an aliphatic 2-6C carboxylic or hydroxycarboxylic acid and a 1-6C alcohol or polyol; and
- (ii) an antimicrobial diol of formula (I); and
- (iii) an antioxidant, especially tocopherol or a tocopheryl ester.

R1CHOH(CHR2)XCH2OH (I)

R1=H or R2, provided that when x=1 R1 is H and when x=0 then R1=R2;

R2=6-22C alkyl, 6-22C alkoxyethyl, (2-hydroxy)(6-22C)alkoxyethyl or 6-22C acyloxyethyl; and

x=0 or 1.

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